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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/821,584	
	Filing Date	April 9, 2004	
	First Named Inventor	Terrance P. SNUTCH	
	Art Unit	1614	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	10	Attorney Docket Number	381092000623

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (3 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO-1449 (3 pages + copy) Copies of 8 References Return Receipt Postcard
<div>Remarks</div> <p>Customer No. 25225</p>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MORRISON & FOERSTER LLP Kate H. Murashige - 29,959
Signature	
Date	October 1, 2004

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.	
Dated: October 1, 2004	Signature: (Marian L. Christopher)



PATENT
Docket No. 381092000623

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Marian Christopher
Marian Christopher

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Terrance P. SNUTCH et al.

Serial No.: 10/821,584

Filing Date: April 9, 2004

For: CALCIUM CHANNEL BLOCKERS
COMPRISING TWO BENZHYDRIL
MOIETIES

Examiner: Not Yet Assigned

Group Art Unit: 1614

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of documents numbers 11, 12, 14, 20, 21, 29, 44 and 45 are submitted herewith. Copies of all other documents were previously submitted in an Information Disclosure Statement and/or Office Action directed to the related application Serial No. 10/409,763 filed 8 April 2003, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. §1.98(d)

and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

The documents numbers 11, 12, 14, 20, 21, 29, 44 and 45 listed on the attached Form PTO-1449 were cited in an International Search Report (copy attached) mailed on July 1, 2004 and in an Invitation to Pay Additional Fees (copy attached) mailed on September 2, 2004 directed to a counterpart international or foreign application. A certification under 37 C.F.R. § 1.97(e)(1) follows:

I hereby certify that each item of information was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of __ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.

- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of ___ is enclosed.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 381092000623. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: October 1, 2004

Respectfully submitted,

By: Kate H. Murashige
Kate H. Murashige
Registration No. 29,959

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Form PTO-1449

Docket Number 381092000623

Application Number 10/821,584

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Applicant

Terrance P. SNUTCH et al.

Filing Date April 9, 2004

Group Art Unit 1614

Mailing Date October 1, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	11/1966	3,288,795	Irikura et al.			
	2.	02/1980	4,188,485	Kukla			
	3.	04/1990	4,918,073	Ruger et al.			
	4.	01/1995	5,386,025	Jay et al.	536	23.5	
	5.	06/1995	5,428,038	Chatterjee et al.	514	253	
	6.	04/1997	5,623,051	Catterall et al.	530	324	
	7.	07/1997	5,646,149	Hellberg et al.	514	253	
	8.	12/1997	5,703,071	Itoh et al.	514	218	
	9.	01/2000	6,011,035	Snutch et al.	514	231.2	
	10.	09/2001	6,294,533	Snutch et al.	514	231.2	
	11.	10/2001	6,310,059	Snutch			
	12.	10/2001	2001/029258	Snutch			
	13.	05/2002	6,387,897	Snutch	514	231.2	
	14.	02/2004	2004/034035	Snutch et al.	514	255.01	

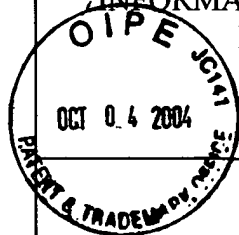
FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	15.	07/1986	EP 0 187 524	EPO			
	16.	03/1987	EP 0 213 006	EPO			
	17.	11/1991	EP 0 458,387	EPO			
	18.	01/1983	ES 504 202	SPAIN			
	19.	04/1983	ES 514 167	SPAIN			
	20.	05/1983	ES 8 304 135	Spain			
	21.	07/1983	ES 8 305 343	Spain			
	22.	06/1978	GB 1 513 883	United Kingdom			

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DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 381092000623	Application Number 10/821,584
	Applicant Terrance P. SNUTCH et al.	
	Filing Date April 9, 2004	Group Art Unit 1614
	Mailing Date October 1, 2004	

	23.	07/1994	WO 94/14786A	WIPO				
	24.	04/1999	WO 99/15129	WIPO				
	25.	05/1999	WO 99/25686	WIPO				
	26.	01/2000	WO 00/01375A	WIPO				
	27.	04/2000	WO 00/18402A	WIPO				
	28.	06/2000	WO 00/37059A	WIPO				
	29.	06/2001	WO 01/45709	WIPO				

OTHER DOCUMENTS *(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
	30.	Bourinet et al., "Splicing of α_{1A} Subunit Gene Generates Phenotypic Variants of P- and Q-Type Calcium Channels," Nature Neuroscience (1999) 2:407-415.
	31.	Chiarini, A. et al., "1,4-Dihydropyridines Bearing a Pharmacophoric Fragment of Lidoflazine" Bioorg & Med Chemistry (1996) 4(10):1629-1635.
	32.	Cohan, S. et al., Annals of the New York Academy of Sciences (1991) 635:397-399.
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	37.	Dooley, "Lomerizine Kanebo KK" Current Opinion In CPNS Investigational Drugs (1999) 1(1):116-125.
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	41.	Glamkowski, E. et al., J of Medicinal Chemistry (1977) 20(11):1485-1489.
	42.	Gould et al., "Antischizophrenic Drugs of the Diphenylbutylpiperidine Type Act as Calcium Channel

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		Applicant Terrance P. SNUTCH et al.	
		Filing Date April 9, 2004	Group Art Unit 1614
		Mailing Date October 1, 2004	
		Antagonists," Proc Natl Acad Sci (1983) 80:5122-5125.	
	43.	Grantham et al., "Fluspirilene Block of N-Type Calcium Current in NGF-Differentiated PC12 Cells," Brit J Pharmacol (1994) 111:438-488.	
	44.	International Search Report for PCT/CA2004/000535, mailed on 1 July 2004, 5 pages	
	45.	Invitation to Pay Additional Fees for PCT/CA2004/000539, mailed on 2 September 2004, 6 pages	
	46.	Ito et al., "U-92032, a T-Type Ca ²⁺ Channel Blocker and Antioxidant, Reduces Neuronal Ischemic Injuries," Eur J Pharmacol (1994) 257:203-210.	
	47.	King et al., "Substituted Diphenylbutylpiperidines Bind to a Unique High Affinity Site on the L-Type Calcium Channel," J Biol Chem (1989) 264:5633-5641.	
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	63.	Zikolova, S. et al., Tr. Nauchnoizsled Khim-Farm Inst (1984) 14:23-28.	
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